#### CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET SACRAMENTO. CA 95814-5512

#### **NOTICE OF PROPOSED AWARDS**

# Energy-Related Environmental Research Relevant to California PON-08-003 April 17, 2009

On December 8, 2008 the California Energy Commission (Energy Commission) released a competitive grant solicitation for "Energy-Related Environmental Research Relevant to California" under the Energy-Related Environmental Research Program of the Public Interest Energy Research (PIER) Program. The solicitation announced that up to \$4.25 million in funding was available. Funding was divided into four separate research topics: Air Quality, Aquatic Resources, Terrestrial Resources, and Community Scale Energy Research.

The proposals were screened, reviewed, evaluated, and scored using the criteria prescribed in the solicitation. Based on the Review Team's scores and suggested funding levels, the Energy Commission's Research, Development, and Demonstration (RD&D) Committee proposes to award over \$2.5 million and fund seven passing projects for this solicitation. This Notice of Proposed Awards is hereby issued pursuant to those recommendations.

The attached table, Committee Funding Recommendations for Grant Solicitation PON-08-003, identifies each of the applicants recommended to receive funding, the project title, the amount of funding recommended by the RD&D Committee, and scoring information.

Final approval of these awards rests with the Energy Commission, which will consider each project recommended by the RD&D Committee during a publicly noticed Business Meeting at the Energy Commission in Sacramento, California.

Persons wishing further information about this matter may contact Sandra Fromm at (916) 653-9355, <a href="mailto:sfromm@energy.state.ca.us">sfromm@energy.state.ca.us</a>.

KAREN DOUGLAS Energy Commission Chair Presiding Member, RD& D Committee

#### **Research Topic: Terrestrial Resources**

Proposal Number	Applicant	Project Title	Funding Requested	Recommended Funding	Match Funding	Final Score	Rank
	USDA, Forest Service, Pacific Soutwest	Improving the Accuracy and Cost-effectiveness of Pre-Construction and Operations Monitoring Efforts for Bats and Birds at Wind Energy Facilities in		•	****		
14	Research Station	California	\$550,948	\$550,948	\$200,389	91.1	1
17	Kenneth Shawn Smallwood	Comparing Utilization Data for Siting New Wind Power Generation	\$181,800	\$181,800	\$15,400	82.2	2
3	EDM International, Inc.	Evaluating the Effectiveness of Avian Interaction Mitigating Measures and Processes	\$165,516	\$165,516	\$37,000	81.7	3
18	Triple HS, Inc. d/b/a H.T. Harvey & Associates	Radar, Acoustic and Observational Study to Assess Bat and Bird Movements and Mortality Relative to Old and New Wind Tower Structures	\$732,411	\$732,411 <sup>1</sup>	\$0	73.2 <sup>2</sup>	4
10	California Wind Energy Association	Improving Methods to Assess and Mitigate Impacts of Wind Energy Development on Birds and Bats in California: Synthesizing and Analyzing a Database to Emprically Evaluate Key Issues, and Validating Fatality Estimation Methods	\$750,000	\$442,078 <sup>3</sup>	\$511,343	71.0 <sup>4</sup>	5
6	Wildlife Research Institute, Inc.	Golden Eagle Movements throughout California Using Satellite Telemetry to Determine Use of Wind Resource Areas	\$749,979	\$0	ψοτι,στο	Did not pass technical review	
4	The Regents of the University of California (Wildlife Health Center, UC Davis School of Vet. Medicine)	Evaluating Cumulative Population Impacts of Mortality due to Energy Utility Systems and Compensatory Mitigation Options for Golden Eagles in California	\$745,931	\$0		Did r	not pass al review
9	EchoTrack Inc.	Monitoring the re-powering of Altamont Pass and the effects on California's bird populations using remote sensing 3-D	\$289,471	\$0		Did r	not pass
19	Predatory Bird Research Group	Improving the Accuracy and Cost-effectiveness of Pre-Construction and Operations Monitoring Efforts for Bats and Birds at Wind Energy Facilities in California	\$722,635	\$0		Did r	not pass

Recommended funding for Proposal # 18 is conditional upon minor modifications to the study design.

Proposal received 1 CBE preference point, which is included in the final score.

For Proposal # 10, funding is recommend only for Tasks 1, 3, and 4. Task 2 is not recommended for funding.

Proposal received 1 CBE preference point, which is included in the final score.

### **Research Topic: Aquatic Resources**

Proposal Number	Applicant	Project Title	Funding Requested	Recommended Funding	Match Funding	Final Score	Rank
11	The Regents of the University of California (UC Davis)	Juvenile and adult hardhead thermal tolerances and preferences: Temperature preference, critical thermal limits, active and resting metabolism and blood-oxygen equilibria	\$441,797	\$441,797	\$82,008	85.6 <sup>5</sup>	1
12	US Forest Service	Hydropower Generation Effects on Riverine Populations of Western Pond Turtles: Assessing Effects in the Sierra Nevada, Evaluating Methods for FERC Re-licensing and Field Studies of Altered Water Temperatures and Flows	\$498,027	\$0		Did r technica	not pass Il review
15	John Lawson	Wave Energy-Based Gas Fuel Production	Not specified	\$0		admin	not pass istrative creening

## **Research Topic: Community Scale Energy Research**

Proposal Number	Applicant	Project Title	Funding Requested	Recommended Funding	Match Funding	Final Score	Rank
2	AltoStratus Inc.	Ranking and Prioritizing the Deployment of Community-Scale energy Technologies Based on their Indirect Effects in CA Climate Zones	\$120,492	\$120,492	\$22,266	84.8 <sup>6</sup>	1
1	Lawrence Berkeley National Laboratory	Energy Savings from Air Temperature Reduction in Cool Communities	\$300,000	\$0		Did not pass technical review	
7	Community Environmental Council	One Stop Shop - Residential ESCO Model for Integrated Demand Side Management in Existing Residential and Small commercial Buildings	\$75,000	\$0		Did r technica	not pass al review

<sup>&</sup>lt;sup>5</sup> Proposal received 3 CBE preference points, which are included in the final score. <sup>6</sup> Proposal received 3 CBE preference points, which are included in the final score.

## **Research Topic: Air Quality**

Proposal Number	Applicant	Project Title	Funding Requested	Recommended Funding	Match Funding	Final Score	Rank
	University of CA-	Air Quality Impacts of the More				Did r	not pass
8	Irvine	Renewable Energy Future in California	\$499,414	\$0		technica	I review

#### **Summary of Proposed Awards**

Proposal Number	Applicant	Project Title	Funding Requested	Recommended Funding	Match Funding	Final Score	Rank
Terrestrial Resources	Аррисан	1 Toject Title	Nequesteu	1 unung	runung	30016	Italik
	USDA, Forest Service, Pacific Soutwest Research	Improving the Accuracy and Cost-effectiveness of Pre-Construction and Operations Monitoring Efforts for Bats and Birds at Wind Energy Facilities in					
14	Station	California	\$550,948	\$550,948	\$200,389	91.1	1
17	Kenneth Shawn Smallwood	Comparing Utilization Data for Siting New Wind Power Generation	\$181,800	\$181,800	\$15,400	82.2	2
3	EDM International, Inc.	Evaluating the Effectiveness of Avian Interaction Mitigating Measures and Processes	\$165,516	\$165,516	\$37,000	81.7	3
18	Triple HS, Inc. d/b/a H.T. Harvey & Associates	Radar, Acoustic and Observational Study to Assess Bat and Bird Movements and Mortality Relative to Old and New Wind Tower Structures	\$732,411	\$732,411 <sup>7</sup>	\$0	73.2	4
10	California Wind Energy Association	Improving Methods to Assess and Mitigate Impacts of Wind Energy Development on Birds and Bats in California: Synthesizing and Analyzing a Database to Emprically Evaluate Key Issues, and Validating Fatality Estimation Methods	\$750,000	\$442,078 <sup>8</sup>	\$511,343	71.0	5
Aquatic	7.1000010411011	- Calamy Zommanom monitor	ψ. σσ,σσσ	ψ.:=,σ.σ	φστι,στο		
Resources							
11	The Regents of the University of California (UC Davis)	Juvenile and adult hardhead thermal tolerances and preferences: Temperature preference, critical thermal limits, active and resting metabolism and blood-oxygen equilibria	\$441,797	\$441,797	\$82,008	85.6	1
Community Scale Energy Research							
2	AltoStratus Inc.	Ranking and Prioritizing the Deployment of Community-Scale energy Technologies Based on their Indirect Effects in CA Climate Zones	\$120,492	\$120,492	\$22,266	84.8	1
		Total Funding	\$2,942,964	\$2,635,042	\$868,406		

Recommended funding for Proposal # 18 is conditional upon minor modifications to the Statement of Work.

8 For Proposal # 10, funding is recommend only for Tasks 1, 3, and 4. Task 2 is not recommended for funding.